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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q95231

Mariko MIYACHI, et al.

Appln. No.: 10/584,218

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: June 23, 2006

For:

ANODE MATERIAL FOR SECONDARY BATTERY, ANODE FOR SECONDARY

BATTERY AND SECONDARY BATTERY THEREWITH

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Report on Patentability (IPRP). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

Respectfully submitted,

SUGHRUE MION, PLLC Telephone: (202) 293-7060

Facsimile: (202) 293-7860

WASHINGTON OFFICE 23373 CUSTOMER NUMBER

Date: November 1, 2006

L. Bernstein Registration No. 25,665

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

MIYAZAKI, Teruo
8th Floor, 16th Kowa Bldg. 9-20, Akasaka
1-chome
Minato-ku, Tokyo 1070952 SEP - 7, 2006
JAPON

Date of mailing (day/month/year)
31 August 2006 (31.08.2006)

Applicant's or agent's file reference
NEC04P213

International application No.
PCT/JP2004/019336

Applicant

NEC CORPORATION et al

1. Transmittal of the translation to	he applicant.
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~	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NEC04P213	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/019336	International filing date (day/month/year) 24 December 2004 (24.12.2004)	Priority date (day/month/year) 26 December 2003 (26.12.2003)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant NEC CORPORATION			

1.	This international preliminary re International Searching Authoric	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ty under Rule 44 bis.1(a).
2.	This REPORT consists of a tota	l of 5 sheets, including this cover sheet.
	In the attached sheets, any refere to the international preliminary	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indications	relating to the following items:
	Box No. I	Basis of the report
	Box No. Π	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	**Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VΠI	Certain observations on the international application
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority

Date of issuance of this report 22 August 2006 (22.08.2006)

Yoshiko Kuwahara

Authorized officer

e-mail: pt07@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: 3 WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION NEC04P213 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/019336 24.12.2004 26.12.2003 International Patent Classification (IPC) or both national classification and IPC Applicant NEC CORPORATION This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer Facsimile No. Telephone No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019336

Box	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
:	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019336

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial a citations and explanations supporting such statement		ile 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; oporting such statement			
I.	Statement				
	Novelty (N	1)	Claims	10, 11, 14, 15, 17	YES
			Claims	1-9, 12, 13, 16, 18	NO
	Inventive	step (IS)	Claims		YES
			Claims	1-18	NO
	Industrial	applicability (IA)	Claims	1-18	YES
			Claims		NO

2. Citations and explanations:

[List of documents] All of the following documents are cited in the ISR.

1. JP 9-245771'A (Fuji Photo Film Co., Ltd.), 19 September 1997

claims 1-10, paragraphs 0006 and 0019 (Family: none)

2. JP 9-283180 A (Fuji Photo Film Co., Ltd.), 31 October 1997

Paragraphs 0020 and 0021 etc. (Family: none)

3. JP 8-264178 A (Fuji Photo Film Co., Ltd.), 11 October 1996

claims 1-4, paragraph 0017 etc. (Family: none)

4. JP 2002-260637 A (Sanyo Electric Co., Ltd.), 13 September 2002

claims 1-63, paragraphs 0014-0017, 0021 and 0022

& WO 2002/21616 A1 & EP 1335438 A1 & US 2004/43294 A1

5. JP 2003-17040 Å (Sanyo Electric Co., Ltd.), 17 January 2003 claims 1-16, paragraph 0015, embodiment etc. (Family: none)

[Explanations]

The inventions of claims 1-9, 12, 13, 16 and 18 do not appear to be novel or involve an inventive step based on the description in document 1. Document 1 describes using, as a negative electrode material, an Si-Ag-O compound oxide or a compound oxide further compounded with a lithium, and describes a compound having a specific component ratio. It also describes that a compound oxide may be formed into noncrystalline.

The inventions of claims 1, 2, 6-9, 12, 13, 16 and 18 do not appear to be novel or involve an inventive step based on the descriptions in documents 2 and 3. Documents 2 and 3 respectively describe that various noble metals are contained in a silicon oxide, and further describe that the oxide may be noncrystalline.

The inventions of claims 10, 11, 14, 15 and 17 do not appear to involve an inventive step based on the descriptions in documents 1-3 and documents 4 and 5. As described in documents 4 and 5, for providing a negative electrode material, roughening a surface of a power collecting member into a specific condition, and capability of using PVD and CVD as a layer forming method are merely well-known matters before claiming the priority of the present application.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/019336

	No. VI	Certain documents cited			
1.	Certain pul	blished documents (Rule 43bis.	ł and 70.10)		
		Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	JP	2004-273443 ^A	30.09.2004	13.02.2004	18.02.2003
	E,	x			
			-		
			-		
2.	Non-writte	n disclosures (Rule 43bis.1 and	170.9)		
		Kind of non-written disclosure	e Date of non-written di (day/ <i>month/yea</i>	isclosure referring	of written disclosure to non-written disclosure (day/month/year)
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